

## CHAMBERS CREEK BASIN

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12091500 CHAMBERS CREEK BELOW LEACH CREEK, NEAR STEILACOOM, WA

LOCATION.--Lat 47°11'52", long 122°31'39", in NE  $\frac{1}{4}$  NE  $\frac{1}{4}$  sec.27, T.20 N., R.2 E., Pierce County, Hydrologic Unit 17110019, on right bank 200 ft downstream from Leach Creek, 1.5 mi downstream from outlet of Steilacoom Lake, and 4 mi northeast of Steilacoom.

DRAINAGE AREA.--104 mi<sup>2</sup>.

PERIOD OF RECORD.--December 1937 to September 1940, July 1943 to September 1965, October 1997 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 100 ft above sea level, from topographic map. Prior to October 1997, at several sites within 0.10 mi downstream from present site at various datums.

REMARKS.--Records good except estimated daily discharges and those above 250 ft<sup>3</sup>/s, which are fair. Some regulation by gates at outlet of Steilacoom Lake. Some diversions from tributaries for domestic use.

AVERAGE DISCHARGE.--28 years (water years 1939-40, 1944-65, 1998-2001), 112 ft<sup>3</sup>/s, 81,010 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 792 ft<sup>3</sup>/s, Jan. 5, 1956, gage height, 3.58 ft, site and datum then in use; minimum discharge, 14 ft<sup>3</sup>/s Aug. 15-17, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 157 ft<sup>3</sup>/s, June 11, gage height, 2.55 ft; minimum discharge, 31 ft<sup>3</sup>/s, Sept. 19-21.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	54	58	61	62	72	e83	116	46	71	38	37
2	33	51	63	57	68	e73	e103	92	48	60	39	36
3	32	48	56	62	64	e69	e90	88	47	48	40	35
4	32	50	53	82	100	e70	e85	87	46	47	41	35
5	32	48	52	104	85	e67	e80	85	48	46	40	34
6	32	53	49	82	80	e66	e81	78	50	44	39	34
7	32	48	48	81	74	e65	e80	74	48	42	38	34
8	32	88	47	75	82	e66	e81	72	48	42	38	34
9	44	97	49	69	81	e64	e83	71	58	42	37	34
10	46	69	50	68	72	e64	e103	69	58	42	37	34
11	44	62	49	66	70	e64	e110	65	124	42	36	33
12	49	55	48	64	68	e65	e95	66	110	43	35	33
13	49	52	48	67	66	e67	e89	66	91	42	35	33
14	46	51	53	68	64	e64	e85	89	81	42	35	33
15	45	50	55	65	64	e80	e82	96	77	42	35	32
16	60	49	64	63	84	e73	e81	106	75	43	34	32
17	57	49	75	62	84	e72	e97	86	70	43	34	32
18	65	48	61	66	79	e92	e89	83	66	42	34	32
19	53	48	57	65	72	e86	e84	81	64	42	34	31
20	103	48	55	62	70	e80	e80	76	62	41	34	31
21	72	47	54	97	71	e74	e79	71	59	41	42	31
22	57	46	67	82	73	e71	e78	70	58	41	87	32
23	52	60	69	74	68	e68	e80	68	57	40	84	32
24	46	53	73	72	66	e67	e78	65	64	40	58	32
25	44	61	60	69	64	e78	e76	58	66	39	50	33
26	42	77	57	66	63	e83	e75	52	59	38	47	42
27	48	96	58	63	62	e89	74	53	101	39	42	35
28	83	71	54	63	62	e84	77	55	98	43	39	34
29	68	68	55	69	---	e79	76	55	80	39	38	33
30	59	67	74	65	---	e77	109	55	76	39	37	35
31	55	---	72	63	---	e79	---	50	---	38	36	---
TOTAL	1546	1764	1783	2172	2018	2268	2563	2298	2035	1343	1293	1008
MEAN	49.9	58.8	57.5	70.1	72.1	73.2	85.4	74.1	67.8	43.3	41.7	33.6
MAX	103	97	75	104	100	92	110	116	124	71	87	42
MIN	32	46	47	57	62	64	74	50	46	38	34	31
AC-FT	3070	3500	3540	4310	4000	4500	5080	4560	4040	2660	2560	2000
CFSM	.48	.57	.55	.67	.69	.70	.82	.71	.65	.42	.40	.32
IN.	.55	.63	.64	.78	.72	.81	.92	.82	.73	.48	.46	.36

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2001, BY WATER YEAR (WY)

MEAN	55.1	70.5	126	185	214	201	153	116	85.0	61.8	49.4	47.2
MAX	96.9	111	357	496	499	448	270	201	126	101	94.6	79.7
(WY)	1998	1998	1956	1956	1951	1950	1950	1948	1948	1948	1948	1948
MIN	36.0	37.6	40.5	43.7	72.1	73.2	63.1	60.4	51.5	39.2	34.5	33.0
(WY)	1953	1953	1945	1945	2001	2001	1944	1944	1944	1962	1962	1998

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1938 - 2001

ANNUAL TOTAL	35973	22091		
ANNUAL MEAN	98.3	60.5		
HIGHEST ANNUAL MEAN			112	
LOWEST ANNUAL MEAN			184	1951
HIGHEST DAILY MEAN	274	Mar 4	59.3	1944
LOWEST DAILY MEAN	32	Sep 24	14	Aug 16 1965
ANNUAL SEVEN-DAY MINIMUM	32	Oct 2	26	Aug 13 1965
ANNUAL RUNOFF (AC-FT)	71350	43820	81010	
ANNUAL RUNOFF (CFSM)	.95	.58	1.08	
ANNUAL RUNOFF (INCHES)	12.87	7.90	14.61	
10 PERCENT EXCEEDS	187	85	224	
50 PERCENT EXCEEDS	76	62	84	
90 PERCENT EXCEEDS	36	35	42	

e Estimated